PYLE SPORTS

GPS

GPS SPEEDOMETER

Speedometer powered by GPS with PC inter-face

PGPFPD5

INSTRUCTION MANUAL

www.pyleaudio.com

RANGE OF APPLICATION

The GPS device is a navigation system. By using the 24 satellite network circling the earth, the position of the user can be determined. This is possible at any time and everywhere in the world.

- The GPS device is designed for use as a global positioning system.
- The GPS device serves mainly for the measurement of distances, speed, altitude and navigation by using the US-American 24 satellite network.
- The device is not usable for demanding applications such as paragliding, sky diving or soaring.
- The GPS device is designed for private use and not suitable for commercial use.

A use different than described in this instruction manual is not permitted and can lead to damage or injury. We assume no liability for damages resulting from improper use. Further directions and explanations can be found in the instruction manual.

GPS Reception

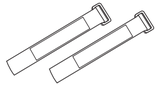
To use the GPS function of your GPS device optimally, it is imperative that the following instructions are follows.
The GPS device is a global positioning system (=GPS), which mainly serves for the measurement of distances, speed, altitude and navigation by using the US-American 24 satellite network.
The United States of America operate this 24 satellite network and are responsible for its accuracy and maintenance.

Only during **clear weather** (clear sky) and suitable reception area - **open area and clear view of the sky** – can a faultless satellite reception be ensured.

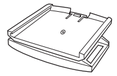
Since satellite signals react very sensitively to outside influences, bad weather conditions (such as strong snowfall) as well as a disturbed reception area (GPS device is covered by clothing or other objects, high buildings or narrow valleys and gorges prevent reception) can seriously impair the performance and accuracy of the GPS device.
The GPS reception in buildings is very reduced or impossible. Near windows, as well as in rooms with large windows and free sight of the sky, the position can be determined in certain circumstances, depending on the current position of the satellites. In closed rooms and in cellars the GPS reception is practically always impossible.

ACCESSORIES

Mounting Shoe



Arm belt & Extension Belt



Holder (Rotate 360°)

Docking Station with USB cable

Battery (1.5V / AA)

Installation CD

MOUNTING THE GPS DEVICE

For mounting the GPS device, an arm belt with holder as well as a bicycle holder is available. The correct mounting with both methods is described in the following items:

Mounting with Bicycle holder

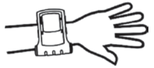
A further method of securing your GPS device is to attach it to a bicycle with the included bicycle holder.

- Put the bicycle holder on the handlebar of your bicycle.
- Push the GPS device into the arm belt holder from below.
- Secure the arm belt with the Velcro fastener to the bicycle holder.

Mounting using Arm Belt with holder

The correct attachment of the included arm belt is conducted as follows:

- Push the GPS device into the holder from below. The holder can be turned 360°.
- If necessary, you can extend the arm belt with the included extension. That way you can attach the arm belt either to the wrist or the upper arm.



Please take care that the GPS device has a clear view of the sky to ensure a faultless reception of the signals. Otherwise a limitation of the performance and the accuracy could result. Take care that the GPS device is not covered by clothing... The reception could be distinctly reduced by this. You can read more about GPS reception in item "**GPS Reception**"

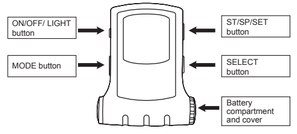
CLEANING AND MAINTENANCE

- Clean the GPS device and the docking station only with a soft, moist, lint free cloth.
- Do not use solvents, acidic or gaseous cleaning agents.
- Take care not to leave any water drops on the display of the GPS device. Water can cause permanent discolorations.
- Do not expose the display to bright sunlight nor to ultraviolet radiation.
- On the display of the GPS device is a transparent protective film. You can remove this or leave it on the display to protect it from scratching.

INSERTING THE BATTERY

Unscrew the cover of the battery compartment (possibly with the aid of a small coin). Insert the included battery (1 1.5V AA (LR6) battery) with the + pole pointing to the top. Put the cover of the battery compartment back on and screw it tight.

FUNCTION BUTTONS OF THE GPS DEVICE



Tip:
Place your GPS device some minutes before you start your journey or drive in an open area with free sight of the sky and switch it on by press and hold the **ON/OFF/LIGHT button for about 3 seconds.**

Switch on the GPS device:
Hold the **ON/OFF/LIGHT** button for about 3 seconds.
Switch off the GPS device:
Hold the **ON/OFF/LIGHT** button for about 3 seconds.

The GPS device automatically starts to search for a GPS signal, visible by the blinking satellite symbol in the top left of the display.

Please note that it can take up to 15 minutes from the first start in new surroundings until the first satellite reception occurs. Then the satellite symbol appears permanently on the display. The more "waves" are displayed around the satellite symbol, the better the reception:

Weak reception

Very good reception

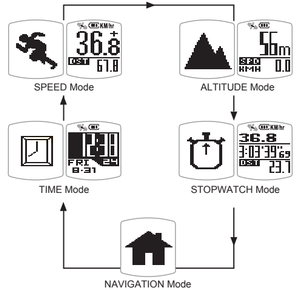
Good reception

Best possible reception

If the GPS device has not received a Satelite signal after 15 minutes, the message "GPS turned off" appears on the display. By switching the GPS device off and switching it on again, the search for a GPS signal is automatically start again.

TO TURN ON AND DISPLAY DIFFERENT MODE

1. Press and hold **ON/OFF/LIGHT** button for 3 seconds to turn on the GPS device.
2. Press **MODE** button to switch between different mode.



SPEED MODE

Press the **MODE** button until you are in the speed mode, display by the following readout (graphics on the left).

By pressing the **SELECT** button, you can change the readout in the lower part of the display as follows:

- DST = Daily distance
- TM = Training time (displays the time moving, i.e. during standstill the time is stopped, if the movement continues, the time continues as well. GPS reception provided!)
- AVS = Average speed

Hold SET to reset DST, TM, AVS

- MXS = Maximum speed
- ODO = Total distance

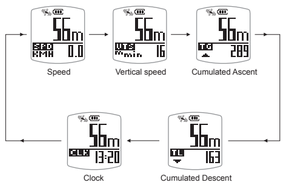
Hold SET to clear MXS, ODO

- CPS = Compass (an arrow shows the direction (N, E, W or S) in which you are moving)
  N = North E = East W = West S = South
- CLK = Current Time

ALTITUDE MODE

Press the **MODE** button until you are in the altitude mode, displayed by the following readout:

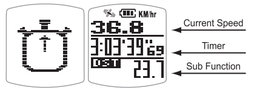
By pressing the **SELECT** button, you can change the readout in the lower part of the display as follows:



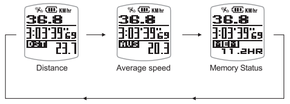
- SPD = speed in km/h (or miles/h)
- VTS = vertical speed in metres (or feet) per minute
- TG = cumulated ascent in metres (or feet)
  Max. display 99,999 metres or 327,996 feet Hold SET to clear
- TL = cumulated descent in metres (or feet)
  Max. display 99,999 metres or 327,996 feet Hold SET to clear
- CLK = Current Time

STOPWATCH MODE

Press the **MODE** button until you are in the stopwatch mode, displayed by the following readout:



By pressing the **SELECT** button, you can change the readout in the lower part of the display as follows:



- DST = Distance during time keeping
- AVS = Average speed during time keeping
- MEM = Memory status

Press the **ST/SP/SET** button to start/ stop the stopwatch.
Reset the stopwatch
- Press the **ST/SP/SET** button to stop the stopwatch
- Hold the **SEL** button to reset to zero.

Notice:
Please note that the GPS data is saved in the GPS device only during ongoing timekeeping.
You can change to all modes during timekeeping, the recording of GPS data continues until you stop the timekeeping in the stopwatch mode or the memory is full.

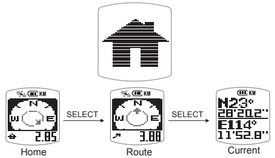
1. Press the ST/SP/SET button to start the Stopwatch. When the Stopwatch is running, Data is recorded by the GPS unit. The unit can store up to 350 hours of data. Before the memory go to zero, please import the data in your computer.
2. Press ST/SP/SET to stop the Stopwatch, GPS will in the same time stop recording data.
3. You can resuming recording for the same record by starting the stopwatch again.
4. To start a new record, hold the ST/SP/SET button for 3 seconds until the stopwatch reset to zero.
5. Repeat the procedure of recording will start recording for a new set of Record.

Clearing the all record from Memory :
You can clearing all memory in the watch with 2 way

1. Importing the data to the computer – (please see the software user manual)
2. When the stopwatch is at zero, hold the ST/SP/SET button for 5 second.
   A message "Clear all memory?" will pop out from the screen Confirm delete by pressing ST/SP/SET button. Decline delete by pressing SELECT button.

NAVIGATION MODE (Function only with Satellite Signal)

Press the **MODE** button until you are in the navigation mode, displayed by the following readout:

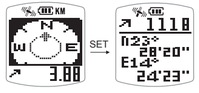


Home Navigation

Home Navigation :
The arrow in the middle show the direction of destination, lower digits show the distance from home. In navigation mode, press SET button to show Home lock time and Home location.

REMARK:
In the beginning or when the user is not moving, the arrow points forward. When user start to move, the arrow will point to the direction of the home position.

Route Navigation



Download route from computer
(Please see appendix how to download route).
At the starting point of the route, turn GPS on.
Middle arrow show the direction on current, checkpoint below digit show the distance remaining to the route destination.

Once the current checkpoint is reached. The next checkpoint will be approached and the Route Navigation display will then be updated automatically with new direction to next checkpoint and updated distance remaining to the route destination.
Until the final destination is reached, the distance remaining will be down to 0.00 and a 🏠 icon will be shown on the middle Hold SET button to reset route navigation from beginning.
Press SET to change the display to current route checkpoint location. Then press SELECT button to show next checkpoint.

when current route checkpoint location displayed.
Hold SET button to use current checkpoint as navigation checkpoint and back to route navigation display.

Current Location

Press the **SET** button for about 3 seconds while the current location displayed to save it as home position.

Display of Position:
When the GPS device is connected to the satellites, the latitude and longitude for every position is displayed. An **N** is added to the latitude (north of the equator) or **S** (south of the equator).
A **W** is added to the longitude (west of the prime meridian) or **E** (east of the prime meridian).

N = North = North	➡ **northern latitude**
S = South = South	➡ **southern latitude**
E = East = East	➡ **eastern longitude**
W = West = West	➡ **western longitude**

The position is displayed in the common format degrees ° minutes ' seconds "
1 degree is subdivided into 60 minutes, one minute is 60 seconds.

Example:
N 48° 8' 41.4"
E 14° 0' 45.0"
= 48 degrees 8 minutes 41.4 seconds northern latitude
14 degrees 0 minutes 45.0 seconds eastern longitude

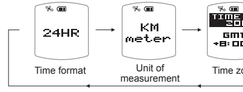
TIME MODE

Press the **MODE** button until you are in the time mode, displayed by the following readout:

During satellite reception (see item ***GPS Reception***) time anddate are set automatically.
Setting the time manually is not possible.

Notice: Please note that the GPS signal sends Greenwich Mean Time (GMT), and it may be necessary to set a different time zone.

Setting Time Format, Unit of Measurement and Time Zone
To set a different time zone, please follow item ***Setting Time Format, Unit of Measurement and Time Zone***.



To set the time format, unit of measurement and time zone you must be in the time mode:

1. Press the **ST/SP/SET** button for about 3 seconds. „24HR" starts to blink.
2. Choose the desired time format by pressing the **SELECTION** button (12HR for 12 hour display or 24HR for 24 hour display) and confirm your choice by pressing **ST/SP/SET again**. „KM metre" starts to blink.
3. Choose the desired time format by pressing the **SELECTION** button („KM meter" for metres or „mile feet" for miles) and confirm your choice by pressing **ST/SP/SET** again. Now the setting of the time zone follows.
4. Set the desired time zone by pressing the **SELECTION** button.

Notice:
During standard time GMT + 01:00 applies for Germany During daylight saving time GMT + 02:00 applies for Germany

Confirm your choice by pressing the **ST/SP/SET** button again. The settings are now concluded.

LIGHT FUNCTION

By pressing the **ON/OFF/LIGHT** button, the display is illuminated for about 3 seconds. Once the backlight is ON, pressing the ON/OFF/LIGHT button will keep the backlight permanention.
Press the ON/OFF/LIGHT button again will then turn off the backlight. A permanent illumination of the display is not recommended. Please note however that the illumination of the display requires more electricity, which results in a shorter lifespan of the battery.

BATTERY CHANGE

The state of the battery is constantly shown in the top of the display.

A battery change is necessary, if the display gets weaker or it fades totally. If the battery is weak, the battery symbol starts to blink and the message "Low Battery" appears.

Required battery: 1 1.5V AA (LR6) battery

Unscrew the cover of the battery compartment (possibly with the aid of a small coin).

Take the depleted battery out of the GPS device and insert a new battery (1 1.5V AA (LR6) battery) with the + pole pointing upwards.

Put the cover of the battery compartment back on and screw it tight.

Notice:
The saved GPS data is not deleted by a battery change.

Notice:
We recommend the use of high-quality batteries.In case of frequent use, we recommend to replace the 1 1.5V AA (LR6) battery with a1.2V AA NiMH rechargeable battery of at least 2200

FAQ/TROUBLESHOOTING

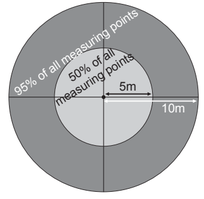
No Satellite Reception
We recommend placing the GPS sport computer in an open area with free view of the sky some minutes before you start your training. Please regard the note in item **"GPS Reception"**.

Message „GPS turned off"
The message „GPS turned off" on the GPS sport computer means that it has not received a satellite signal or it has lost all satellite signals. Please regard the note in item **"GPS Reception"**.

TECHNICAL DATA

Data GPS device	
Power supply:	1 1.5V AA (LR6) battery or 1 1.2V AA rechargeable battery of at least 2200 mAh
Memory for GPS data:	351hours
Accuracy GPS:	5 metres

The indication of the accuracy is derived from the so called 50 % CEP (Circular Error Probability). This means that 50 % of all measurements during very good satellite reception are within the stated radius of 5 m. However this also means that half of the measured points are outside this radius.
It is furthermore the case that 95 % of all measured points a within a circle of twice the stated radius. This means that during very good satellite reception almost all points are within a circle of 10 m radius. The determined position is in the worst case practically always accurate to about 10 m.



Accuracy of Positioning

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